VOLATILE ORGANIC COMPOUNDS MONITORING NETWORK AMBIENT AIR CONCENTRATION DATA LISTING 1989

ARB-105-92

MARCH 1992

Ontario
Environment
Environnement

ISBN 0-7729-9699-7

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Report Prepared By:

Atmospheric Research and Special Projects Section
Air Resources Branch
Ontario Ministry of the Environment

MARCH 1992

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ACKNOWLEDGEMENT

This report was prepared by Peter Steer and Joe Lam of the the Special Studies and Research Management Unit, Atmospheric Research and Special Projects Section of Air Resources Branch. Many people have been involved in the Volatile Organic Compounds Monitoring Network since the three-site trial network began in 1989. Sample collection was the responsibility of the participating regions; project guidance came from the Organics Measurement Sub-Committee of the Ambient Air Quality Assessment Committee (Sub-Committee membership is composed of representatives from the regions, Laboratory Services Branch, and Air Resources Branch); chemical analyses were performed at the Laboratory Servics Branch under the direction of Dr. Brian Foster; and overall project coordination was provided by P. Steer (Air Toxics Network Coordinator - Air Resources Branch). Data entry and records management was provided by Peter Maheras (ARB). Data validation and systems development/management was performed by Joe Lam and Peter Steer. The data listings in this report are available on diskette in dBASE IV®, Release 1.1 or Lotus® 1-2-3®, Release 2.2 format with an accompanying README.DOC file describing the validation codes. All enquiries regarding the reported data should be directed to Peter Steer, Air Toxics Network Coordinator, Air Resources Branch, telephone (416) 326 1665.

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PART I: INTRODUCTION

The data listed in this report are the 1989 results from the Volatile Organic Compounds Monitoring Network. This network began routine collection of samples in the spring of 1989 at three sites: University Avenue in Windsor; Kelly St. in Hamilton; and Perth Avenue School in Toronto.

Samples were collected by drawing air through a two-stage sorbent cartridge for 24 hrs. The flow rate was regulated by a mass flow controller. Details are available elsewhere[1]. Sample analysis was by thermal desorption onto a dual column GC/FID. Details are available elsewhere[2].

To save space in the data listings, the test codes have been used instead of the full chemical names. The table below shows the relationship between test code and chemical name.

TESTCODE	CHEMICAL NAME	TESTCODE	CHEMICAL NAME
PNNAPH	Naphthalene	X11122	1,1,2,2-Tetrachloroethane
X1DCLM	Dichloromethane	X213CB	1,3-Dichlorobenzene
X111CE	1,1-Dichloroethane	X212CB	1,2-Dichlorobenzene
X1111T	1,1,1-Trichloroethane	B12TMB	1,2,4-Trimethylbenzene
X112CE	1,2-Dichloroethane	B13BTN	1,3-Butadiene
X1CTET	Carbontetrachloride	B1CHEX	Cyclohexane
B2BENZ	Benzene	B1HEXA	Hexane
X1TRIC	Trichloroethylene	B23TMB	1,3,5-Trimethylbenzene
B2TOLU	Toluene	B2MXYL	M&P-xylene
X1112T	1,1,2-Trichloroethane	STYR	Styrene
X1TETR	Tetrachloroethylene	X1DBET	1,2-Dibromoethane
X2CBEN	Chlorobenzene	X1TCLM	Trichloromethane
B2EBNZ	Ethylbenzene	B2ISPR	Isoprene
B2OXYL	O-xylene		

The data listed herein have been screened to ensure proper and consistent application of the field and office comments described below. Some of the appended explanatory codes may seem vague

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1 Ontario Ministry of the Environment Volatile Organic Compounds Monitoring Network Standard Operating Procedures and Technical Manual. Air Resources Branch Report # ARB-224-89, January 1990.

2 The Determination of Volatile Organic Compounds (VOC) in Ambient Air by Thermal Desorption. Laboratory Services Branch Report # DESORB-E3131A.1, January 1991.

and subjective: this is unavoidable in part due to the nature of the chemicals being measured and also due to the limited amount of data available. As the database grows, more objective, statistically based tests will be incorporated into the screening programs. The codes that will be affected are identified below in the explanatory notes.

Field Comment Codes

Field comment codes affect an entire sample: i.e. they are not compound specific. Any applicable codes appear under the sample date above the actual chemical results to which the codes apply. The codes have the following meaning:

D the sample is a duplicate at that site;
M a sampler malfunction occurred; this code may appear with the SV office comment code (described below);
S the sample start time was not 00:00 hr ± 01:00 hr;
X the sample duration was not 24:00 hr ± 01:00 hr;
N non-routine sampling day: i.e. the sample was not collected on the regularly scheduled day;
A the sample cartridge arrived at the site office broken;
I the sample cartridge was broken during installation;
R the sample cartridge was broken during removal.

Office Comment Codes

Office comment codes affect an entire sample also. Any applied office comment codes are also to be found in the data listing under the sample date. What the codes mean, and under what circumstances they are appended are described below:

LR low results: this code is appended on the advice of the regional Chief of Air Quality Assessment. The code is applied in instances when a compound such as benzene is not detected in a downtown urban environment and yet no sampling or analytical problems are indicated by field comment codes or result remark codes (described below). As the number of samples grows and a sample distribution shapes up, it is anticipated that this code will still be used, however, it will be appended based not on a subjective "feel" for the data but on a statistical test. For instance, the code may be appended if the reported result falls into a pre-determined percentile (e.g. 10th or 15th);

QD questionnable duplicate: this code is appended based on the judgement of both the regional Chief of Air Quality Assessment and the Network Coordinator. The code is applied in instances when results from one sample from a site at which duplicate samplers are installed show measureable concentrations but results from the duplicate sample are predominantly non-detects;

SV sample volume: this code is appended when the sample volume falls outside pre-determined limits. These limits are 34.2 L and 37.8 L which corresponds to a variation in the flow rate of ± 5%.

Results Remark Codes

Results remark codes are appended by the Laboratory Services Branch and may be specific to individual compounds or they may apply to an entire sample. These codes are found in the column following the analytical result for the specific compounds. The codes are:

!LA lab accident: this code is appended to indicate a problem with the entire analytical run. When this code is appended, concentration results are set to the missing value code (-9);

!BT broken tube: this code indicates a sample that could not be analyzed because it arrived at LSB broken or cracked. When this code is appended, concentration results are set to the missing value code;

!IV invalid: this code is appended i) based on information contained on the field sheets. For instance, if the sampler did not turn on and no sample was collected; or ii) before any analytical results are entered into the Laboratory Information System (LIS) if the analytical results are deemed suspect. This code may or may not appear with an office comment code. When this code is appended, concentration results are set to the missing value code;

!AW analysis withdrawn: this code is appended to invalidate a sample for which analytical results have already been entered into the LIS. In this case, the LIS report is not approved and the analysis is withdrawn. When this code is appended, concentration results are set to the missing value code.

The codes above cause all results from a sample to be set to the missing value code. The results remark codes described below only affect specific compounds.

!EF equipment failure: this code is appended when a portion of the analytical run is out of control usually as a result of a loss in instrument sensitivity (cryotrap problem) or a detector flameout. This code is specific to the compounds it appears opposite.

AIN approximate result/interference suspected: this code is appended when chromatographic peaks are not well separated. Identification and quantitation are based on the analyst's experience. Care should be taken when interpreting the result.

<W compounds thus flagged were not detected at the indicated detection level.

<T a result ten times W. Care should be taken when interpreting the result.

PART II: STATION DESCRIPTION AND LOCATION MAP

Station Id (Name)	(Map Ref)	Region	City	Latitude	Longitude
12008 (University Av)	(1)	Southwest	Windsor	42° 18′ 57"	83° 02′ 36"
29000 (Kelly/Elgin)	(2)	West Central	Hamilton	43° 15′ 28"	79° 51′ 42"
31120 (Perth Av School)	(3)	Central	Toronto	43° 39′ 46"	79° 27′ 08"

PART III:

SOUTHWEST REGION AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT

AMBIENT AIR CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

(ug/m**3)

Station: 12008 - WINDSOR - UNIVERSITY AVE.

Date :	10-APR-89	28-APR-89	16-MAY-89	03-JUN-89	21-JUN-89	09-JUL-89	27-JUL-89	14-AUG-89	01-SEP-89	19-SEP-89	
Field comment :											
Office comment:					LR						
Flow (ml/min) :	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	-9.00	
Volume(litres):	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	-9.00	
----Test Code----											
PNNAPH	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	-9.0	!LA
X1DCLM	.2 <W	.2 <W	1.0 <T	1.2	.2 <W	1.2	2.5	1.6	3.2	-9.0	!LA
X111CE	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	-9.0	!LA
X1111T	1.1	.1 <W	3.0	2.6	.1 <W	2.8	.1 <W	.1 <W	3.1	-9.0	!LA
X112CE	.1 <W	.1 <W	.1 <W	2.1	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	-9.0	!LA
X1CTET	.8 <W	.8 <W	.8 <W	.8 <W	.8 <W	5.7	.8 <W	.8 <W	7.6	-9.0	!LA
B2BENZ	3.4	8.2	3.8	5.1	.2 <T	5.1	5.4	4.9	4.3	-9.0	!LA
X1TRIC	.1 <W	.8 <T	1.2	.5 <T	.1 <W	2.7	1.3	.6	3.5	-9.0	!LA
B2TOLU	12.8	16.6	19.5	13.1	.4 <T	10.7	14.0	24.1	15.2	-9.0	!LA
X1112T	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.6 <T	-9.0	!LA
X1TETR	1.4	3.3	2.5	1.4	.1 <W	1.5	2.2	1.2	2.8	-9.0	!LA
X2CBEN	.1 <W	.1 <W	.1 <W	.2 <T	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	-9.0	!LA
B2EBNZ	3.7	2.8	4.2	1.7	.1 <W	1.5	3.3	3.4	3.3	-9.0	!LA
B2OXYL	4.5	3.6	5.0	2.2	.2 <T	2.0	3.4	4.0	4.3	-9.0	!LA
X11122	.2 <W	3.3	.2 <W	1.7	.2 <W	.2 <W	2.9	1.0 <T	2.2	-9.0	!LA
X213CB	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	-9.0	!LA
X212CB	.1 <W	1.4	.1 <W	.1 <W	.1 <W	.1 <W	1.7	.1 <W	.1 <W	-9.0	!LA
B12TMB	4.5	5.5	5.6	2.5	.1 <W	3.9	4.4	4.6	4.8	-9.0	!LA
B13BTN	.1 <W	.3 <T	.3 <T	.2 <T	.1 <W	.3 <T	.3 <T	.3 <T	.1 <T	-9.0	!LA
B1CHEX	.2 <T	.1 <W	1.2	.4 <T	.1 <W	.5 <T	.1 <W	.1 <W	.3 <T	-9.0	!LA
B1HEXA	.1 <W	6.6	3.8	3.1	.2 <T	6.1	4.5	6.3	3.1	-9.0	!LA
B23TMB	1.0	1.7	1.6	.6 <T	.1 <W	1.0	1.7	1.7	1.1	-9.0	!LA
B2MXYL	6.4	8.8	14.1	6.2	.1 <W	5.2	9.4	11.2	7.0	-9.0	!LA
STYR	2.0	.4 <T	1.0	.4 <T	.1 <W	.9 <T	.4 <T	.3 <T	.4 <T	-9.0	!LA
X1DBET	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.1 <W	.7 <T	-9.0	!LA
X1TCLM	.3 <W	14.4	10.1	.3 <W	.3 <W	84.0	12.6	9.6	.3 <W	-9.0	!LA
B2ISPR	.1 <W	1.4	.8 <T	.8 <T	.1 <W	.1 <W	1.6	1.6	.1 <T	-9.0	!LA

ONTARIO MINISTRY OF THE ENVIRONMENT

AMBIENT AIR CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

(ug/m**3)

Station: 12008 - WINDSOR - UNIVERSITY AVE.

Date :	07-OCT-89	25-OCT-89	12-NOV-89	30-NOV-89
Field comment :				
Office comment:				
Flow (ml/min) :	25.00	25.00	25.00	-9.00
Volume(litres):	36.00	36.00	36.00	-9.00
----Test Code----				
PNNAPH	.1 <W	.1 <W	.1 <W	-9.0 !AW
X1DCLM	1.0	1.2	1.0 <T	-9.0 !AW
X111CE	.1 <W	.1 <W	.1 <W	-9.0 !AW
X1111T	.1 <W	.1 <W	1.8	-9.0 !AW
X112CE	.1 <W	.1 <W	.1 <W	-9.0 !AW
X1CTET	.8 <W	.8 <W	8.7	-9.0 !AW
B2BENZ	2.4	6.1	3.2	-9.0 !AW
X1TRIC	.3 <T	14.2	.7 <T	-9.0 !AW
B2TOLU	4.6	49.8	7.4	-9.0 !AW
X1112T	.1 <W	1.3	.1 <W	-9.0 !AW
X1TETR	.4 <W	13.4	.7 <T	-9.0 !AW
X2CBEN	.1 <W	.1 <W	.1 <W	-9.0 !AW
B2EBNZ	1.0	5.9	1.9	-9.0 !AW
B2OXYL	1.4	8.3	1.9	-9.0 !AW
X11122	.2 <W	7.5	.2 <W	-9.0 !AW
X213CB	.1 <W	.8 <T	.1 <W	-9.0 !AW
X212CB	.1 <W	2.3	.1 <W	-9.0 !AW
B12TMB	.1 <W	13.6	2.8	-9.0 !AW
B13BTN	.1 <W	.1 <W	.1 <T	-9.0 !AW
B1CHEX	.1 <W	.7 <T	.3 <T	-9.0 !AW
B1HEXA	1.3	6.6	3.7	-9.0 !AW
B23TMB	.6 <T	3.9	.9 <T	-9.0 !AW
B2MXYL	3.6	21.7	4.9	-9.0 !AW
STYR	.5 <T	1.0	.5 <T	-9.0 !AW
X1DBET	.1 <W	1.1	.1 <W	-9.0 !AW
X1TCLM	.3 <W	15.4	.3 <W	-9.0 !AW
B2ISPR	.1 <W	.1 <W	.5 <T	-9.0 !AW

PART IV

WEST CENTRAL REGION AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT

AMBIENT AIR CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

(ug/m**3)

Station: 29000 - HAMILTON - KELLY/ELGIN ST.

Date :	16-MAY-89	03-JUN-89	21-JUN-89	09-JUL-89	14-AUG-89	07-OCT-89	25-OCT-89	24-NOV-89
Field comment :								
Office comment:	LR	LR	LR	LR				
Flow (ml/min) :	-9.00	25.00	25.00	25.00	25.00	-9.00	-9.00	25.00
Volume(litres):	-9.00	35.95	35.95	35.95	35.95	-9.00	-9.00	35.95
----Test Code----------								
PNNAPH	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
X1DCLM	-9.0 !IV	.2 <W	.2 <W	.2 <W	1.3	-9.0 !LA	-9.0 !BT	1.0 <T
X111CE	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
X1111T	-9.0 !IV	.1 <W	2.3	.1 <W	6.8	-9.0 !LA	-9.0 !BT	1.4
X112CE	-9.0 !IV	.1 <W	.1 <W	.1 <W	3.0	-9.0 !LA	-9.0 !BT	1.0
X1CTET	-9.0 !IV	.8 <W	.8 <W	.8 <W	.8 <W	-9.0 !LA	-9.0 !BT	12.0
B2BENZ	-9.0 !IV	.2 <T	.5 <T	.2 <T	4.4	-9.0 !LA	-9.0 !BT	3.5
X1TRIC	-9.0 !IV	.1 <W	.5 <T	.1 <W	1.7	-9.0 !LA	-9.0 !BT	.1 <W
B2TOLU	-9.0 !IV	.2 <T	4.6	.2 <T	11.3	-9.0 !LA	-9.0 !BT	7.5
X1112T	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
X1TETR	-9.0 !IV	.1 <W	.1 <W	.1 <W	7.2	-9.0 !LA	-9.0 !BT	2.4
X2CBEN	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
B2EBNZ	-9.0 !IV	.1 <W	.3 <T	.1 <W	2.4	-9.0 !LA	-9.0 !BT	1.2
B2OXYL	-9.0 !IV	.1 <W	.2 <T	.1 <W	3.7	-9.0 !LA	-9.0 !BT	1.7
X11122	-9.0 !IV	.2 <W	.2 <W	.2 <W	.2 <W	-9.0 !LA	-9.0 !BT	.2 <W
X213CB	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
X212CB	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
B12TMB	-9.0 !IV	.1 <W	.1 <W	.1 <W	5.5	-9.0 !LA	-9.0 !BT	2.7
B13BTN	-9.0 !IV	.1 <W	.1 <W	.1 <W	.4 <T	-9.0 !LA	-9.0 !BT	.2 <T
B1CHEX	-9.0 !IV	.1 <W	.1 <W	.1 <W	.4 <T	-9.0 !LA	-9.0 !BT	.4 <T
B1HEXA	-9.0 !IV	.1 <W	.4 <T	.1 <W	3.1	-9.0 !LA	-9.0 !BT	2.3
B23TMB	-9.0 !IV	.1 <W	.1 <W	.1 <W	1.9	-9.0 !LA	-9.0 !BT	.6 <T
B2MXYL	-9.0 !IV	.1 <T	.5 <T	.1 <W	8.5	-9.0 !LA	-9.0 !BT	3.8
STYR	-9.0 !IV	.1 <W	.1 <W	.1 <W	.3 <T	-9.0 !LA	-9.0 !BT	.4 <T
X1DBET	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA	-9.0 !BT	.1 <W
X1TCLM	-9.0 !IV	.3 <W	.3 <W	.3 <W	.3 <W	-9.0 !LA	-9.0 !BT	.3 <W
B2ISPR	-9.0 !IV	.1 <W	.1 <W	.1 <W	2.1	-9.0 !LA	-9.0 !BT	.1 <W

PART V

CENTRAL REGION AMBIENT AIR CONCENTRATION RESULTS

ONTARIO MINISTRY OF THE ENVIRONMENT

AMBIENT AIR CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

(ug/m**3)

Station: 31120 - TORONTO - PERTH AVENUE SCHOOL

Date :	28-APR-89	28-APR-89	16-MAY-89	16-MAY-89	06-JUN-89	21-JUN-89	21-JUN-89	09-JUL-89	09-JUL-89	27-JUL-89
Field comment :		D			LR		D QD		LR	D QD
Office comment:										
Flow (ml/min) :	25.00	25.00	25.00	-9.00	25.00	25.00	25.00	-9.00	25.00	25.00
Volume(litres):	36.00	36.00	36.00	-9.00	36.00	36.00	36.00	-9.00	36.00	36.00
----Test Code----										
PNNAPH	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
X1DCLM	.2 <W	1.0 <T	.2 <W	-9.0 !BT	.2 <W	.2 <W	.2 <W	-9.0 !IV	.2 <W	.2 <W
X111CE	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
X1111T	.4 <T	3.3	.2 <T	-9.0 !BT	.1 <W	7.7	.1 <W	-9.0 !IV	.1 <W	18.3
X112CE	.1 <W	.1 <W	.2 <T	-9.0 !BT	.1 <W	5.4	.1 <W	-9.0 !IV	.1 <W	.5 <T
X1CTET	.8 <W	.8 <W	.8 <W	-9.0 !BT	.8 <W	.8 <W	.8 <W	-9.0 !IV	.8 <W	.8 <W
B2BENZ	.5 <T	2.4	.2 <T	-9.0 !BT	.1 <W	4.6	.6 <T	-9.0 !IV	.1 <W	.9 <T
X1TRIC	.1 <W	.7 <T	.1 <W	-9.0 !BT	.1 <W	2.1	3.8	-9.0 !IV	.1 <W	.1 <W
B2TOLU	1.6	8.0	.4 <T	-9.0 !BT	.1 <W	14.3	2.3	-9.0 !IV	.1 <W	2.0
X1112T	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
X1TETR	.1 <W	1.6	.1 <W	-9.0 !BT	.1 <W	4.4	.1 <W	-9.0 !IV	.1 <W	.3 <T
X2CBEN	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
B2EBNZ	.3 <T	1.5	.1 <W	-9.0 !BT	.1 <W	2.7	.4 <T	-9.0 !IV	.1 <W	.3 <T
B2OXYL	.4 <T	2.3	.1 <W	-9.0 !BT	.1 <W	3.7	.5 <T	-9.0 !IV	.1 <W	.5 <T
X11122	.2 <W	1.8	.2 <W	-9.0 !BT	.2 <W	2.5	.2 <W	-9.0 !IV	.2 <W	.2 <W
X213CB	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
X212CB	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
B12TMB	.8 <T	5.4	.2 <T	-9.0 !BT	.1 <W	6.0	.9 <T	-9.0 !IV	.3 <T	1.0
B13BTM	.1 <W	.2 <T	.1 <W	-9.0 !BT	.1 <W	.3 <T	.1 <W	-9.0 !IV	.1 <W	.1 <W
B1CHEX	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.4 <T	.1 <T	-9.0 !IV	.1 <W	.1 <W
B1HEXA	.3 <T	1.5	.1 <W	-9.0 !BT	.1 <W	4.2	.4 <T	-9.0 !IV	.1 <W	.4 <T
B23TMB	.2 <T	1.5	.1 <W	-9.0 !BT	.1 <W	1.7	.3 <T	-9.0 !IV	.1 <W	.3 <T
B2MXYL	1.1	5.4	.2 <T	-9.0 !BT	.1 <W	9.1	1.4	-9.0 !IV	.1 <W	1.1
STYR	.1 <T	.8 <T	.1 <W	-9.0 !BT	.1 <W	2.3	.2 <T	-9.0 !IV	.1 <W	.2 <T
X1DBET	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W
X1TCLM	.3 <W	.3 <W	.3 <W	-9.0 !BT	.3 <W	.3 <W	.3 <W	-9.0 !IV	.3 <W	.3 <W
B2ISPR	.1 <W	.1 <W	.1 <W	-9.0 !BT	.1 <W	1.5	.1 <W	-9.0 !IV	.1 <W	.1 <W

ONTARIO MINISTRY OF THE ENVIRONMENT

AMBIENT AIR CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

(ug/m**3)

Station: 31120 - TORONTO - PERTH AVENUE SCHOOL

Date :	27-JUL-89	14-AUG-89	14-AUG-89	01-SEP-89	01-SEP-89	19-SEP-89	19-SEP-89	07-OCT-89	07-OCT-89	25-OCT-89
Field comment :			D		MX	X	X		M	
Office comment:					SV	SV	SV	LR	LR	
Flow (ml/min) :	25.00	25.00	25.00	25.00	-9.00	25.00	25.00	25.00	25.00	-9.00
Volume(litres):	36.00	36.00	36.00	36.00	-9.00	48.00	48.00	36.00	36.00	-9.00
----Test Code----										
PNNAPH	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X1DCLM	4.7	1.0 <T	.2 <W	1.0 <T	-9.0 !IV	.2 <W	1.0 <T	.2 <W	.2 <W	-9.0 !LA
X111CE	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X1111T	74.6	.7 <T	.1 <W	5.8	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X112CE	6.1	.8 <T	.1 <W	1.7	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X1CTET	.8 <W	.8 <W	.8 <W	.8 <W	-9.0 !IV	.8 <W	.8 <W	.8 <W	.8 <W	-9.0 !LA
B2BENZ	4.3	.9 <T	1.0	1.8	-9.0 !IV	.2 <T	.7 <T	.1 <T	.2 <T	-9.0 !LA
X1TRIC	1.1	.1 <W	.1 <W	1.1	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
B2TOLU	33.1	4.0	4.8	12.9	-9.0 !IV	.6 <T	2.7	.1 <T	.4 <T	-9.0 !LA
X1112T	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X1TETR	3.2	.5 <T	.5 <T	3.2	-9.0 !IV	.1 <W	.5 <T	.1 <W	.1 <W	-9.0 !LA
X2CBEN	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
B2EBNZ	7.0	.8 <T	.8 <T	2.4	-9.0 !IV	.1 <T	.4 <T	.1 <W	.1 <W	-9.0 !LA
B2OXYL	7.8	1.0	1.1	3.0	-9.0 !IV	.1 <T	.6 <T	.1 <W	.1 <T	-9.0 !LA
X11122	3.8	.2 <W	.2 <W	1.7	-9.0 !IV	.2 <W	.2 <W	.2 <W	.2 <W	-9.0 !LA
X213CB	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X212CB	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
B12TMB	9.9	1.7	1.8	5.7	-9.0 !IV	1.6	1.3	.1 <W	.2 <T	-9.0 !LA
B13BTN	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
B1CHEX	.7 <T	.1 <W	.1 <W	.3 <T	-9.0 !IV	.1 <W	.1 <T	.1 <W	.1 <W	-9.0 !LA
B1HEXA	5.4	.8 <T	.9 <T	1.7	-9.0 !IV	.1 <T	.6 <T	.1 <W	.1 <T	-9.0 !LA
B23TMB	3.9	.5 <T	.6 <T	1.3	-9.0 !IV	.1 <W	.4 <T	.1 <W	.1 <W	-9.0 !LA
B2MXYL	22.6	2.5	2.9	8.4	-9.0 !IV	.4 <T	1.4	.1 <W	1.3	-9.0 !LA
STYR	1.6	.6 <T	.2 <T	.7 <T	-9.0 !IV	.1 <W	.2 <T	.1 <W	.1 <W	-9.0 !LA
X1DBET	.1 <W	.1 <W	.1 <W	1.2	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA
X1TCLM	.3 <W	.3 <W	.3 <W	.3 <W	-9.0 !IV	.3 <W	1.5 <T	.3 <W	.3 <W	-9.0 !LA
B2ISPR	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !IV	.1 <W	.1 <W	.1 <W	.1 <W	-9.0 !LA

ONTARIO MINISTRY OF THE ENVIRONMENT

AMBIENT AIR CONCENTRATIONS OF VOLATILE ORGANIC COMPOUNDS

(ug/m**3)

Station: 31120 - TORONTO - PERTH AVENUE SCHOOL

Date : 25-OCT-89
Field comment :
Office comment:
Flow (ml/min) : 25.00
Volume(litres): 36.00

Test Code		
PNNAPH	.1	<W
X1DCLM	.2	<W
X111CE	.1	<W
X1111T	1.0	
X112CE	1.0	
X1CTET	4.9	
B2BENZ	1.4	
X1TRIC	.1	<W
B2TOLU	4.7	
X1112T	.1	<W
X1TETR	.6	<T
X2CBEN	.1	<W
B2EBNZ	.6	<T
B2OXYL	.7	<T
X11122	.2	<W
X213CB	.1	<W
X212CB	.1	<W
B12TMB	1.2	
B13BTN	.1	<W
B1CHEX	.2	<T
B1HEXA	.9	<T
B23TMB	.3	<T
B2MXYL	2.0	
STYR	.2	<T
X1DBET	.1	<W
X1TCLM	.3	<W
B2ISPR	.4	<T